

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claims in the application:

Listing of the Claims:

1. (Currently Amended) Method for addressing components of a first network in a ~~data bus~~ data bus system in a transport vehicle, in which each component is assigned a first address for mutual communication within the network and the first addresses are stored in a central register, wherein at least one particular component of the first network communicates with ~~another a~~ second network, said one component, when dialling into the second network, is assigned a second address by the second network, and wherein, within the first network, addressing takes place on the basis of function-specific address components, identical function blocks of the components being addressed via identical function-specific address components.

2. (Original) Method for addressing components of a first network, in a data bus system in a transport vehicle, in which each component is assigned a first address for mutual communication within the network and the first addresses are stored in a central register, wherein external IP addresses are issued to components which are authorized on the basis of an entry in a configuration list in a centralized component, and wherein proof about the authorization is made via a main function block transmitted with a request.

3. (Original) Method according to Claim 2, wherein the main function block is also transmitted from an interrogating component to the centralized component during the interrogation, and the IP address is formed from the main function block and other address components of the interrogating component.

BEST AVAILABLE COPY

4. (Currently Amended) Method according to Claim 1, wherein a component of the first network registers a communication with the second network with the at least one particular component which communicates with the ~~is visible from outside the first~~ second network, whereupon ~~the~~ a component of the ~~registering~~ at least one particular component, with the internal address from the first network, enables communication with ~~the~~ an external IP address and thereupon sets up communication with the second network.

5. (Currently Amended) Method according to Claim 1, wherein the components evaluate the first addresses stored in the central register in order to check ~~the~~ a configuration of the first network ~~entire system~~.

6. (Currently Amended) Method according to Claim 1, wherein, during system power-up, ~~the addresses/address~~ addresses and/or address components relating to a component are copied by the central register via the data bus and are compared with ~~the~~ address information stored in a respective decentralized memory in each component.

7. (Currently Amended) Method according to Claim ~~6~~ 4, wherein in the case of a new configuration of the ~~databus~~ data bus system, the addresses copied by the ~~centralized component~~ central register via the data bus are stored in a memory of ~~the relevant~~ each component.

8. (Currently Amended) Method according to Claim 1, wherein ~~the~~ data are transmitted via an optical data bus.

9. (Currently Amended) The method according to Claim 8, wherein the optical ~~databus~~ data bus is one of a so-called D2B or MOST ~~databus~~ data bus.

BEST AVAILABLE COPY

10. (Currently Amended) Method according to Claim 1, wherein, before an actual data transmission via the data bus during system power-up or after reception of a status signal, ~~the~~ stored addresses or address components are matched in the registers of the components of the first network and/or function groups of the first network in accordance with the stored addresses of the central register ~~centralized component~~.

11. (Currently Amended) Method according to Claim 1, wherein an IP address of ~~the~~ a requesting component ~~is are interrogatable~~ obtained from the central register list by using a special instruction in the system.

12. (Currently Amended) Method according to Claim 2, wherein a component of the first network registers a communication with ~~the~~ a second network with ~~the~~ a component which is visible from outside the first network, whereupon ~~the~~ a component of the ~~registering~~ component which is visible, with the internal address from the first network, enables communication with ~~the~~ an external IP address and thereupon sets up communication with the second network.

13. (Currently Amended) Method according to Claim 2, wherein the components evaluate the first addresses stored in the central register in order to check ~~the~~ a configuration of the first network ~~entire system~~.

14. (Currently Amended) Method according to Claim 2, wherein, during system power-up, the ~~addresses/address~~ addresses and/or address components relating to a component are copied by the central register via the data bus and are compared with ~~the~~ address information stored in a respective decentralized memory in each component.

BEST AVAILABLE COPY

15. (Currently Amended) Method according to Claim ~~2~~ 14, wherein in the case of a new configuration of the ~~databus~~ data bus system, the addresses copied by the ~~centralized component~~ central register via the data bus are stored in a memory of the ~~relevant~~ each component.

16. (Currently Amended) Method according to Claim 2, wherein the data are transmitted via an optical data bus.

17. (Currently Amended) The method according to Claim 16, wherein the optical ~~databus~~ data bus is one of a ~~so-called~~ D2B or MOST ~~databus~~ data bus.

18. (Currently Amended) Method according to Claim 2, wherein, before an actual data transmission via the data bus during system power-up or after reception of a status signal, the stored addresses or address components are matched in ~~the~~ registers of the components of the first network and/or function groups of the first network in accordance with the stored addresses of the central register ~~centralized component~~.

19. (Currently Amended) Method according to Claim 2, wherein IP address of the requesting component are ~~interrogatable~~ obtained from the central register ~~list~~ by using a special instruction in the system.

20. (New) Method for addressing components of a first network in a databus system in a transport vehicle, the method comprising:

assigning, to each component, a logical address and a function specific address component;

assigning, to each component, a first address for mutual communication within the network, wherein the first address comprises the logical address and/or function specific address component;

BEST AVAILABLE COPY

storing the first addresses in a central register;

assigning, to at least one particular component of the first network which communicates with a second network, a second address by the second network when dialling into the second network; and

wherein addressing within the first network takes place on the basis of the function-specific address components, identical function blocks of the components being addressed via identical function-specific address components.

21. (New) Method according to Claim 20 comprising:

registering, by a component of the first network, a communication with the second network with the at least one particular component which communicates with the second network, whereupon a component of the at least one component enables communication with an external IP address and thereupon sets up communication with the second network.

22. (New) Method according to claim 1, wherein the second network is external to the vehicle, the first address assigned to each component specifies a physical location and/or a functional association of each component, the first address is issued based on configuration of the data bus system, and the second address is based on an Internet address.

BEST AVAILABLE COPY